International Journal of
SATELLITE COMMUNICATIONS (*Int. J. Satell. Commun.*)

CONTENTS

VOLUME 11, ISSUE Nos 1–6

ISSUE No. 1 January–February

Delay Performance of VSAT-based Satellite Wide Area Networks: J.-F. Chang and S.-H. Lin 1

An Assessment of the Efficiency Performance of Linearization Schemes in the Australian MOBILESAT System: T. A. Wilkinson 13

Performance of a Satellite Modem Transmitting Convolutionally and Differentially Encoded 8PSK Signals: A. P. Clark and S. W. Cheung 19

The Application of a Bistatic Intersystem Interference Model to Radio Systems Co-ordination and Satellite Systems Optimization: R. McGuinness 33

BOOK REVIEWS 51

ISSUE No. 2 March–April

Improving Concatenated Coding Communications by Employing Signal Editing Techniques: W. H. Ng and J. L. Ungar 53

Improving FH and FH/PN Spread Spectrum Communications through PN *M*-ary Phase Sequences and Signal Editing: W. H. Ng and J. L. Ungar 63

Multilayer Phase Correcting Fresnel Zone Plate Reflector Antennas: Y. J. Guo and S. K. Barton . 75

Statistical Description of Non-coherent Automatic Gain Control: L. Popken and W. Kriedte 81

A Frequency Scanning Satellite System for Land Mobile Communications: P. Russo, A. d'Ippolito, M. Ruggieri, N. Volpicella, G. Scialino, S. Vatta and T. Jones 87

Book Reviews 105

Call for Papers 106

ISSUE No. 3 May–June

Increasing the Up-link CW Interference Immunity of Non-coherent Direct Sequence Pseudonoise (DSPN) Reception with On-board Processing: F. Amoroso and J. L. Bricker 107

K_u- vs. *C*-band and Digital vs. Analogue Television Transmission in a Tropical Climate: K. G. Johannsen and C. Cuevas 119

A Model for the Handover Traffic in Low Earth-orbiting (LEO) Satellite Networks for Personal Communications: F. Dosiere, T. Zein, G. Maral and J. P. Boutes 145

The INTELSAT K Satellite: A. J. Herridge and P. T. Thompson 151

Analytical Calculation of Bistatic Radar Cross-seetions for Rain Scatter Problems: R. A. Sadeghzadeh, I. A. Glover and N. J. McEwan 163

Abstracted/indexed by Cambridge Scientific Abstracts, Current Contents/ Eng, Tech & Applied Sciences, Engineering Index, Information Reports & Bibliographies, INSPEC, Research Alert (ISI), SCISEARCH Databases (ISI) and Telecommunications Abstracts

ISSUE No. 4 July–August

Special Issue on VSAT Standardization
Guest Editor: Yasuhiko Ito

Introducing our Guest Editor—Dr. Yasuhiko Ito: B. G. Evans 169

Editorial: Y. Ito 171

Standardization of VSAT Communication Systems in the CCIR: Y. Ito and P. Amadesi 173

VSAT Standards, Status and Applications in Europe: J. Salomon and S. Bull 181

The Development of VSAT Performance Standards in the United States of America: M. W. Mitchell and R. A. Hedinger 195

A Canadian Perspective on VSATs: Regulatory, Technical and Operational Methodologies: H. Ghandeharian and V. Sahay 201

VSAT Networks in India—Specifications and Applications: A. K. Ghose 211

VSATs in Japan: A. Fujii 217

VSAT Applications in Russian Satellite Communications: V. M. Dorofeev and L. Y. Kantor 223

VSAT Networks in the INTELSAT System: J. Albuquerque, L. Buchsbaum, C. Meulman, F. Rieger and X. Zhu 229

CALL FOR PAPERS 241

ISSUE No. 5 September–October

Performance Analysis and Measurement of a SAW-based Group Demodulator for On-board Processing in Communications Satellites: C. Loo and M. D. Shaw 243

Trellis Coded Modulations with Improved Non-coherent Detection for Personal and Mobile Satellite Communications: D. Makrakis 253

Static and Dynamic Retransmission Control for Slotted Aloha in Transmission Channels with Erasure and Capture: A. Böttcher and C. Meier-Hedde 271

Orbital Performance of Communication Satellite Microwave Power Amplifiers (MPAs): R. Strauss 279

A Multi-carrier Demodulator Architecture for SMS/IBS: S. K. Barton and Y. O. Al-Jalili 287

Book Reviews 299

ISSUE No. 6 November–December

An Engineering Approach for Site Shielding Calculations: G. J. van Dooren and M. H. A. J. Herben 301

A Co-designed Coding, Modulation and Equalization Scheme for the Transmission of 155·52 Mbit/s Data over a 72 MHz INTELSAT Transponder. Part 1: Coding and Modulation Performance: R. E. Peile 313

A Co-designed Coding, Modulation and Equalization Scheme for the Transmission of 155·52 Mbit/s Data over a 72 MHz INTELSAT Transponder. Part 2: Equalization: R. E. Peile, S. A. Rajput and L. R. Welch 335

A Comparison of Fully Digital Quadrature Modulation for Modem Systems: V. Acha and R. A. Carrasco 367

Author Index 377

Key Word Index 379